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MAY 3 1969

MAY, 1969

WITHIN OUR BORDERS

AN ALBERTA GOVERNMENT PUBLICATION

ALBERTA RESOURCES RAILWAY

Heavy earth moving equipment and unique operating procedures were used in the construction of the Alberta Resources Railway right-of-way through difficult territory. As seasons changed, mud gave way to dust, and muskeg to frozen ground, to test the abilities of the construction crews. Monster equipment, such as this dual-unit bulldozer, was utilized to help move thousands of yards of earth.

Modern track laying equipment was inching its way along the newly constructed right-of-way as the work crews followed closely on the earth moving equipment, regardless of the season. Frost and snow were common to the year-round working season.

Health Care Is Provided New Population

THE EXPECTED INFLUX of construction workers into the Grande Cache area will see a population explosion unprecedented in recent years. Alberta Department of Health officials anticipate an increase from the present community of 145 native people to about 2,000 people by the end of this year, and are gearing their health services for the boom.

The program of immunization, pre-and post-natal visits and counsellling, infant and school health services, sanitation visits and preventive dental services, all presently provided for, will continue on the present basis. Regular home visits by Public Health Nurses, including follow-up and surveillance on all cases of tuberculosis and venereal disease will be maintained.

To date every child in the community of Grande Cache has been immunized, annual vision and hearing tests have been completed on all school children, full preventive dental services have been provided for all children three years of age and over, and tuberculosis surveys have been performed on all Grade 1 students in the area. In addition to these programs, Health Unit staff are frequently called upon to provide emergency medical and nursing treatment, treatment for minor ailments and transportation to clinics for medical care, hospital treatment or chest X-rays.

The extension of these services to cope with the rapid increase in population will place a tremendous load on local Health Unit funds and resources. The Department of Health has made a firm commitment to meet this need, and is taking an active part in the ground-floor planning of the entire development to ensure establishment of adequate preventive health services.

Additional health services will be required with the establishment of the first construction camp site. Preventive health services are directly concerned with inspection and enforcement of Department of Health regulations in the areas of water supply, sewage and waste disposal, food services and sanitation in general, in these sites.

THE COVER

Premier H. E. Strom will drive the final spike, signalling the completion of the Alberta Resources Railway, at a ceremony at Grande Prairie May 28. With the opening of the line, a whole new town will form in the wilderness; coal production to fulfill a multi-million dollar contract will start; thermal power generation will supply a vast new area; sulphur production will ensue; and forest resources will be exploited. A work train is shown proceeding over the Mason Creek bridge last month.

Issue Permits For Water System At Grande Cache

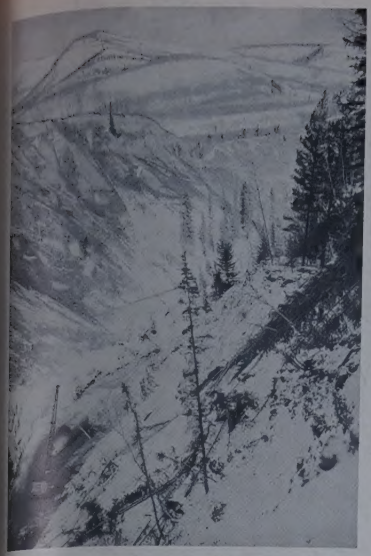
CERTIFICATES covering contracts valued at $1,200,000 for the construction of a water supply and sewage collection system in the new town of Grande Cache have been issued by the Provincial Board of Health, as recommended by the Municipal Engineering Section of the Environmental Health Services Division, Alberta Department of Health.

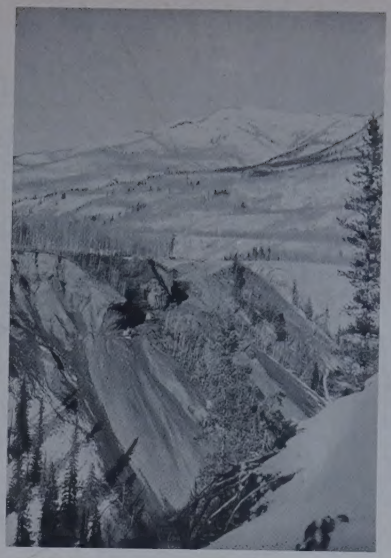
The Municipal Engineering Section is responsible for reviewing plans to ensure that the Provincial Board of Health regulations are being complied with, and recommends the issuance of certificates for the installation of systems of this kind.

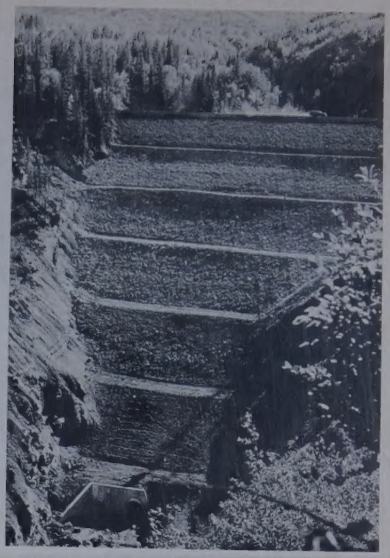
Construction has started on the system with completion slated for August 30, 1969. The water supply pumping station and treatment plant along with a 1,000,000 Imperial gallon capacity concrete reservoir will be ready by the end of July. Work covered by the contracts for the distribution and collection system should be ready by mid-August.

The initial phase of this system will provide service to about 230 residential lots plus the commercial centre, schools, recreation centre, hospitals and the industrial section of the town. Part of the system will be in operation by the end of June to serve families who have moved in by that time.

Water will be taken from Victor Lake, about one mile east of Grande Cache, chlorinated and pumped through a filtration plant and into the distribution system and the large holding reservoir, which rides on the distribution system. A gravity sewage collection system will carry raw waste to a four-cell anaerobic sewage lagoon system south-west of the town, where treated effluent will be discharged into the Smoky River.

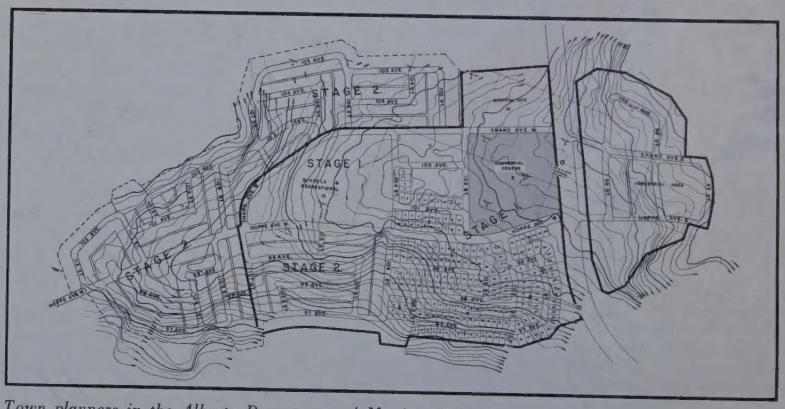






The deep gorge at Flood Creek was one of the many difficult construction situations that faced the progress of the Alberta Resources Railway through foothills country. Economy indicated use of fill rather that bridge construction at this point, and work started with the laying of two steel culverts ten feet in diameter. By the time the cleft had been filled, 800,000 cubic yards of earth had been moved stretching upwards from the 800 foot long base to a height of 175 feet. Some idea of the size may be gained by comparing the embankment with the car crossing its top.

New Concepts Are Built-In For New Town



Town planners in the Alberta Department of Municipal Affairs take careful pains to ensure that the new town will expand satisfactorily to the residents, and in an orderly manner in keeping with topography and population needs.

ALBERTA'S LATEST instant town will rapidly become a bustling industrial community. A major underground coal mining operation, about 100 miles northwest of Hinton, necessitated the immediate development of a modern townsite. Under The New Towns Act, funds are being made available by the Provincial Government for the development of the New Town of Grande Cache.

Clearing is almost completed on stage 1 of the 1,075 square mile townsite. The surveying of stage 1 has been completed and the installation of the water and sewer systems is underway. Construction crews of two to three hundred men, some of whom are native to the region and of Indian ancestry, will be in the area during the height of construction.

Residential areas are being developed this year with estimate of 160 to 170 houses to be built south of the commercial complex and completed and occupied by September 1st, of 1969. Approximately another 350 units will be built between September 1st, 1969 and June, 1970. The first stage of the project also includes plans for a major shopping centre including a hotel. This centre will be completed by September 1st, 1969.

School facilities will be available September 1st, 1969; temporary or mobile units may be necessary for the first two or three months if the permanent facilities are not completed by September 1st. It is anticipated that mobile hospital facilities will be provided until such time as a permanent hospital is expected to start by mid 1969.

About 170 families are expected to be permanent residents in the town by September 1st, 1969. By the end of 1969 a permanent population of 800 citizens is anticipated. By the end of 1970, 3,000 will be living in Grande Cache according to estimates by the Department of Municipal Affairs. Up to 800 jobs will be created by the mine.

The power lines will be installed immediately by Canadian Utilities Limited and will be unique in having complete underground installation of electrical transmission lines. In addition, a franchise has been awarded by the New Town to Plains-Western Gas and Electric Co. Ltd. for the underground distribution of propane as natural gas is not presently available on an economic basis for the residents of the New Town. Installation on the necessary piping for the heating fuel will commence very shortly.

Canadian Utilities will be constructing a power plant at the mine site. The $20,000,000.00 coal-fired, steam generating plant will operate at a generating capacity of approximately 100 megawatts and use as fuel, waste coal from the McIntyre-Porcupine Mines Ltd. mining operation. The generating plant will feed power into the McIntyre-Porcupine Mines Ltd. coal mining operation and to the town and into the power grid. As the generating plant will not begin operation until 1972, it was necessary to construct a 65-mile, 144,000 volt transmission line to serve the New Town of Grande Cache in the interim. The transmission line and distribution system will represent a million dollar investment in Alberta by Canadian Utilities.

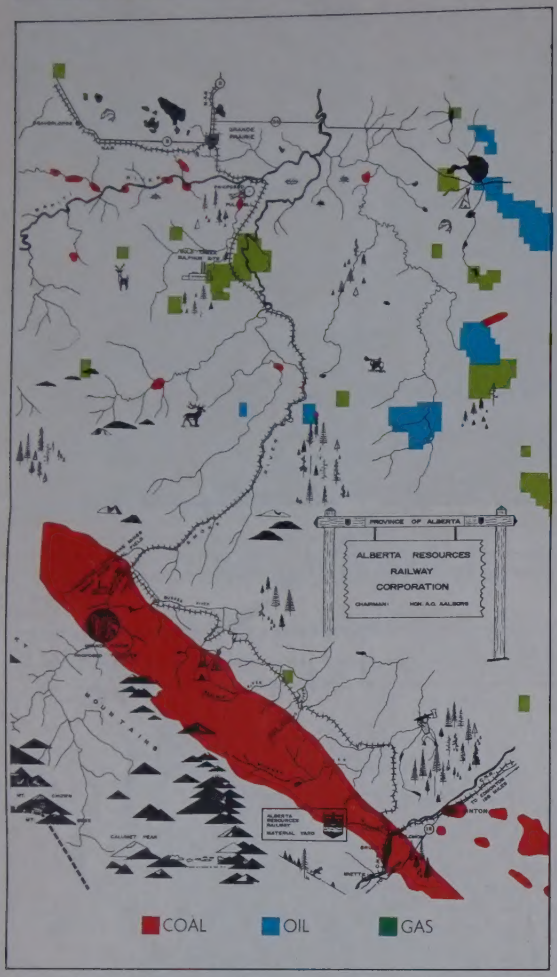
The rapid and immediate development of Grande Cache was necessitated by the coming of the $96,000,000 Alberta Resources Railroad and the exploitation of the region's coal.

The Commercial Centre project will be completed in three stages:

Stage One, which is scheduled to be in operation September 1st, 1969, will include a hotel, shopping mall, with shops and stores, a supermarket and a department store, office space adjoining the mall, and a service station.

Stage Two, finished by next fall will include an addition to the hotel, elevated concourse from the hotel to the shopping mall, additional shops in the mall, perhaps a bowling alley, and possibly a theatre, provincial offices and town hall with a firehall attached.

Stage Three, to involve more shops and a second addition to the hotel. ●



Some of the mineral resources of the area opened by the Alberta Resources Railway may be seen above, with areas of coal, both hard and soft, oil and gas defined. Additional resource areas including those of forest and agricultural potential, will be defined as time progresses.

$96,000,000 Railway Opens New Resources For Private Development

THE BUSY CLACK of wheel on rail and the rude blat of the diesel horn has signalled the opening of another era in the development of Alberta's rich natural resources.

The driving of the traditional last golden spike and the turning of the last plated bolt at a ceremony at Grande Prairie at month's end will herald the completion of the $96,000,000 Alberta Resources Railway. The new line will provide the first economic means of access to rich lodes of mineral, forest, agricultural and recreational resources hitherto beyond reach of development.

One of the first of these to be developed, coal is now being mined for shipment under a long term contract to Japanese interests. The contract, for 29.5 million long tons worth $450,000,000 over 15 years will be moved over the ARR to Pacific Coast points of shipment, in highly efficient 10,000 ton unit trains.

Other resources utilization is under study and under development by commercial interests, that will materially benefit the economy of the province.

Not since the transcontinental railway lines were completed many years ago has there been construction as heavy as that experienced in the building of the 234-mile Alberta Resources Railway through the foothills of the Rocky Mountains.

Because the railway parallels the main range it must cross numerous watersheds carved out by the drainage from the high peaks nearby.

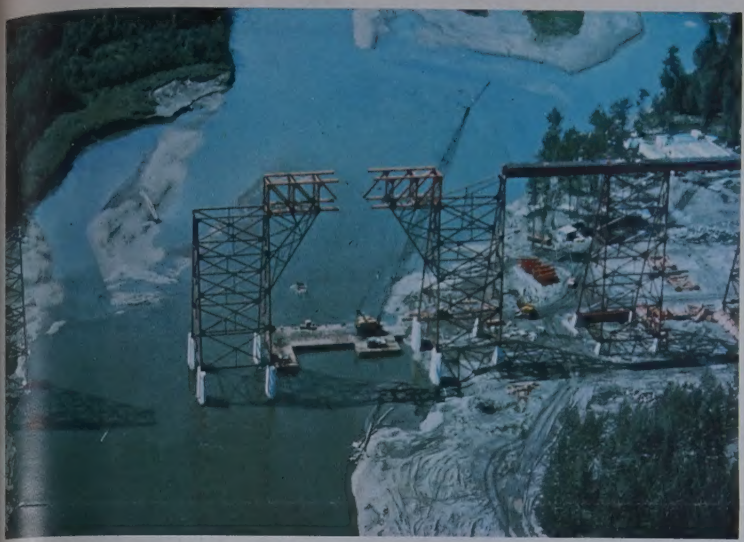
In the result, there are 16 bridges along the route with a combined length of two miles. Six of them are major structures, each more than 500 feet long. One has a height of 200 feet, two are 190 feet and a fourth is 110 feet high.

From its start on the Canadian National main line at Brule, 16 miles west of Hinton, the route ascends nearly 2,000 feet to a summit at Mile 60 in the vicinity of Shand Creek, elevation 4,970 feet. It carries on through rugged terrain to Mile 75 and then commences a gradual descent to the valley of the Smoky River.

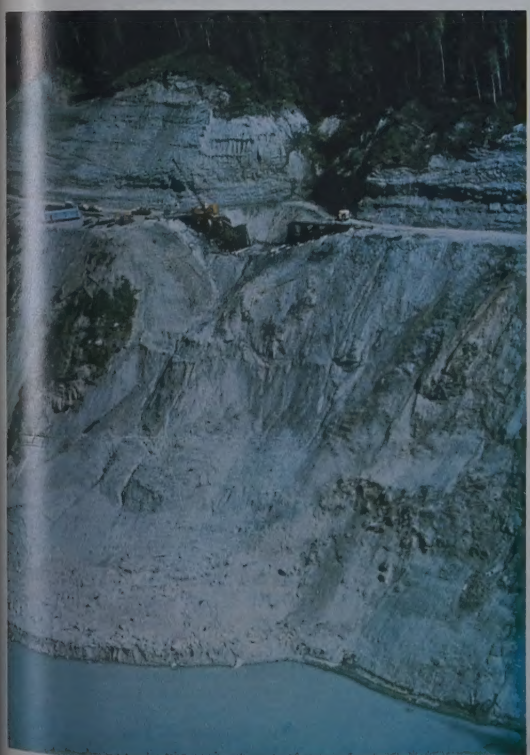
At Mile 110 the railway reaches its first major objective, the coal mines of the Smoky. Before the line leaves the Smoky it will have followed the river for 80 miles and crossed its valley three times.

Brawling and immature, the Smoky River is tight and narrow in its upper reaches and required very

Modern high speed mining equipment and modern mining methods will be used to develop the vast coal potential of the area. One of the cutters and loaders is seen here, being readied for a test cut into the initial exploratory drifts of the rich seam.



Red lead hue of the steel bridge components over the Wapiti River make a colorful contrast with the beautiful and unusual color of Alberta's mountain rivers. These fast-running streams, subject to rapid changes in level with the seasons, made bridge construction difficult.



Maintaining grade to ensure the most economical running costs of the Resources Railway trains brought many problems to the builders of the line. Planking pitched slopes, the crews were often faced with the need of trestle construction, such as this one at mile 172.3.

heavy works to overcome the obstacles to construction. From a scenic standpoint, however, the traverse of the valley is an outstanding experience. Abundant in game – moose, elk, deer, bear, wild horses – the hillsides are beautifully meadowed and the whole area rich in primitive beauty.

Shortly after leaving the Smoky the line emerges on to a plateau at Mile 195 and crosses it for 40 miles through potentially fertile farmland into Grande Prairie.

It was a major three-year project to design and build the Alberta Resources Railway. Almost 45 million cubic yards of materials were excavated and placed. When it is realized, the Peace River dam project involved 60 million cubic yards, the magnitude of the job becomes apparent.

To carry the railway across the chasm of Flood Creek, for instance, required an embankment 175 feet high over twin structural steel-plate drainage pipes. It is the highest known work of its kind in North America and effected significant construction economies. The fill has a volume of 650,000 cubic yards.

The techniques of the relatively new science of soil mechanics were used frequently to cope with other large fills over culverts but the Flood Creek project was unique in that the new soil mechanics principles were applied in its design.

New techniques were used in the railway survey stage also. A helicopter-borne telleurometer to establish the essential ground controls speeded up work in difficult country tremendously.

Computers were used in the design stage of the bridges with programs developed by Canadian National for calculation of forces in welded steel girders and the legs and bracing of towers.

In view of the traffic the Alberta Resources Railway will carry – in particular 100-car unit trains weighing in excess of 13,000 tons – it is interesting that the ruling grade of compensated one percent, against the heavy southbound traffic makes it an economical line over which to operate, considering the roughness of the country. Northbound the ruling grade is 1.5 percent against the lighter traffic. Maximum curvature is six degrees.

HRDA Plans Many Services For New Town

CO-ORDINATION and timing of the provision of various government services in the developing new town of Grande Cache, near the newly opened Alberta Resources Railway, will be undertaken by the Alberta Government Human Resources Development Authority. The project, relatively unique by virtue of previous lack of opportunity, will be watched closely by government and industry as a guide to possible future use.

Under the scheme, HRDA will establish precedence and priority for each of the many facets and requirements that face the sudden opening of a bustling community where virtually nothing rested in a wilderness area.

HRDA will not be involved in the many details of service of each department, but will merely act, upon request, as a scheduling agency.

A General Schedule has been set up relating mining operations, "New Town" structuring and government services.

Working with the various departments responsible for each area of concern, HRDA will endeavor to ensure, for instance, that the department of Municipal Affairs will have its town plan, in various stages, complete and mapped before roads are started, and residential-business area established with interests scheduled around the coal mine area which will be the main support of the town at the start.

The plans of the Department of Public Works in building construction, and the installation timing of the many service departments such as Welfare, Health and others, will be co-ordinated with the assistance of the HRDA.

The "Centralized Planning Service" will also inform various agencies within and without the provincial government, who were not made aware of their need for involvement, that they should participate.

The Human Resources Development Authority will have other duties aside from setting up a schedule. They will first try to keep job opportunities open for Albertans. People of Indian descent will be encouraged to obtain employment in the Grande Cache Area. The Department of Welfare is in charge of this operation and will arrange training for Alberta natives if necessary. It is expected a placement officer will be put in the area by Canada Manpower Center.

"Contractor Preference" will also be encouraged. HRDA supports hiring of Alberta firms, rather than obtaining out-of-province companies to perform building and construction.

At present, Grande Cache is a small clearing site with a few trucks working there. With two years to play with, the cooperative efforts between the McIntyre-Porcupine mine and the governmental departments will produce a completely planned New Town to house employees in Alberta's newest resource development.

"Within Our Borders" is a publication designed to acquaint the people of the Province with the administration of the Alberta Government.

There are no restrictions in the republishing of any material but a credit line would be appreciated.

Notice of change of address should be accompanied by the mailing address on the front of this issue. No charge is made for "Within Our Borders" and new readers are invited to forward their name and address to "Within Our Borders," Room 1618, Centennial Building, Edmonton.

SECOND CLASS MAIL REGISTRATION NO. 1522

Coming Events

Within Our Borders is pleased to list those coming events pertaining to organizational meetings, association gatherings, and other similar non-commercial events of which it is made aware. Forward your information to Within Our Borders, Alberta Government Publicity Bureau, Centennial Building, Edmonton, Alberta.

MAY

1	*Annual Visitors' Golf Tournament*	Nanton
1- 3	*Alberta Real Estate Assoc. Convention*	Edmonton
1- 3	*P.E.O. Sisterhood Convention*	Edmonton
1- 3	*Northwest Canadian Trade Fair*	Edmonton
1- 3	*Northlands Horse Show*	Edmonton
2	*Festival Winners Concert*	Lethbridge
2	*Sportsman's Dinner*	Medicine Hat
2	*R.C.M.P. Ball*	Lethbridge
2	*Junior College Graduation*	Lethbridge
2	*Kiwanis Music Festival*	Edmonton
2- 3	*Yellowhead Highway Association Convention*	Edmonton
2- 4	*Catholic Women's League Convention*	Lethbridge
3- 4	*Synchronized Swimming Competitions*	Edmonton
3- 8	*Canadian Institute of Realtors Convention*	Banff
5	*White Heather Concert*	Medicine Hat
5- 7	*Frontier College*	Calgary
6	*White Heather Concert*	Lethbridge
6- 9	*Canadian Institute of Mining and Metallurgy Petroleum and Natural Gas Convention*	Edmonton
8-10	*National Synchronized Swimming Competitions*	Edmonton
9-10	*Toastmasters' International Dist. 42 Convention*	Edmonton
9-10	*Canadian Synchronized Swimming Championships*	Edmonton
9-10	*Calgary Local Council of Women Convention*	Calgary
9-11	*Calgary Kennel Dog Show*	Calgary
9-11	*Arabian Horse Show*	Edmonton
9-June 9	*Spring Thoroughbred Race Meet*	Edmonton
10	*Catholic Central Graduation*	Lethbridge
10	*Hospital Auxiliary, Annual Spring Ball and Banquet*	Whitecourt
11	*Annual Breakfast Fly-In, Western Aerial Rodeo*	Innisfail
11	*Stock Car Races*	Lethbridge
11	*Civic Centre Building Fund Walkathon — Coaldale to*	Taber
11-17	*Campus Crusade for Christ*	Banff
12-16	*Alberta Conference of the United Church*	Calgary
12-17	*Spring Flower Show*	Edmonton
13	*Junior Recital*	Lethbridge
13-15	*Canadian Crops Symposium*	Edmonton
13-15	*Canadian Council of Resource Ministers 10th Plenary Session*	Edmonton
13-16	*Alberta Association of Registered Nurses Conv.*	Edmonton
13-18	*Calgary International Horse Show*	Calgary
15-18	*Regional ASTA Conference*	Jasper
15-20	*Canadian National Fencing Championships*	Calgary
16-17	*Canadian National Black Belts Judo Championships*	Lethbridge
16-17	*Stavely Indoor Rodeo*	Stavely
16-19	*Western Canada Unitarian District Conf.*	Edmonton
17	*Taber Roping Club's Annual Horse Show*	Taber
17	*Alberta Tuberculosis Association Convention*	Edmonton
17-19	*Anglican and United Young Adults Seminar*	Banff
17-19	*Business & Professional Women's Seminar*	Banff
17-19	*Western Canada Mission, L.D.S.*	Calgary
17-19	*Alberta and Northwest Territories Jaycees Convention*	Edmonton
17-23	*Canadian Amateur Hockey Association Conv.*	Calgary
18	*Annual Baseball Tournament*	Rosalind
18	*Breakfast Fly-In*	Brooks
18	*Stock Car Races*	Lethbridge
18-19	*Taber Rodeo*	Taber
18-21	*Canadian Museums Association Convention*	Edmonton
18-23	*Canadian Welfare Council*	Banff
19	*Caroline Big Horn Rodeo*	Caroline
19	*Victoria Day Race Meet*	Sundre
19	*Little Britches Rodeo*	High River
19	*Sports Day*	Beaverlodge
19	*Sports Day*	Mirror
19	*Sports Day*	Lougheed
19	*Lougheed Agricultural Society — Agricultural Fair*	Lougheed
19	*Thorsby & District Annual Sports Day*	Thorsby
19	*Elks' Picnic*	Sangudo
19	*Royal Canadian Mounted Police Band Concert*	Medicine Hat
19-21	*Canadian Museum Association Conference*	Edmonton
19-24	*Shrine Circus*	Edmonton
20	*Royal Canadian Mounted Police Band Concert*	Taber
21-23	*Fourth Annual International Microwave Power Institute Symposium*	Edmonton
21-24	*Canadian Plumbing & Mechanical Contractors Association Convention*	Jasper
21-24	*Petroleum Accountants Society of Western Canada Conference*	Jasper
22	*Royal Canadian Mounted Police Band Concert*	Calgary
23	*Perlich Horse Sale*	Lethbridge
23-25	*Arabian Horse Show*	Edmonton
23-25	*Western Region Unitarian Association Convention*	Edmonton

Coming Events

MAY

23-27 *Canadian Roofing Contractors Association Conv.* ..... Banff
24 *Kiwanis Track and Field Meet* ..... Hinton
24 *Calico Capers Square Dance Jamboree* ..... Olds
24 *Provincial Teenage Driving Championships* ..... St. Paul
24 *Ladies' Golf Tournament* ..... Daysland
24 *Alberta Tuberculosis & Respiratory Disease Association Annual Meeting* ..... Edmonton
24 *Royal Canadian Mounted Police Band Concert* ..... Red Deer
24 *Gleichen & District 4-H Calf Sale* ..... Gleichen
24 *First Inter-Collegiate Rodeo* ..... Olds
25 *Annual Breakfast Fly-In* ..... Camrose
25 *Royal Canadian Mounted Police Band Concert* ..... Edmonton
25-26 *Lethbridge Symphony Orchestra* ..... Lethbridge
26 *Bull Sale* ..... High River
26-31 *Shrine Circus* ..... Calgary
27 *Royal Canadian Mounted Police Band Concert* ..... Peace River
27-30 *University of Alberta Convocation* ..... Edmonton
27-June 1 *The Law Society of Alberta Convention* ..... Jasper
28 *Royal Canadian Mounted Police Band Concert* ..... Grande Prairie
28-30 *Alberta Magistrates' Association of Alberta Convention* ..... Edmonton
28-30 *Appraisal Institute of Canada Convention* ..... Edmonton
28-30 *Brotherhood of Locomotive Firemen & Enginemen Convention* ..... Edmonton
28-31 *Spring Indoor Horse Show* ..... Red Deer
28-June 1 *Canadian Petroleum Law Foundation Convention* ..... Jasper
29 *Canadian Natural Gas Processing Assoc. Conv.* ..... Edmonton
29-June 1 *Association of Professional Engineers of Alberta Convention* ..... Banff
29-June 1 *Trust Companies Association of Canada Conv.* ..... Jasper
30 *Queen Scouts Ceremony* ..... Edmonton
30 *Royal Canadian Mounted Police Band Concert* ..... Lloydminster
30-June 1 *Mortgage Loans Association of Alberta Conv.* ..... Jasper
30-June 1 *Knights of Columbus Convention* ..... Calgary
30-June 1 *Canadian Ski Patrol System Convention* ..... Banff
30-June 8 1969 *Provincial Aquatic Workshop, U of A* ..... Edmonton
31 *Atiyec Day (Fur Day)* ..... Elk Point
31 *Arabian Horse Show* ..... Lethbridge
31-June 1 *Third Annual Cold Lake Kin-o-soo Fish Derby* ..... Cold Lake

JUNE

1 *Vilna Fastball Tournament* ..... Vilna
1 *Golf Tournament* ..... Daysland
1 *Breakfast Fly-In and Official Opening of the Upgraded Airport* ..... Wainwright
1 *Animal Science . . . University Livestock Farm, 48th Annual Feeders Days* ..... Edmonton
1-3 *Alberta Milk Producers Association Convention* ..... Calgary
1-4 *Canadian Guidance Counsellors Association Convention* ..... Edmonton
1-5 *Western Association of Broadcasters Convention* ..... Jasper
2 *Achievement Day—4-H Beef Club* ..... Forestburg
2 *Achievement Day—4-H Beef Club* ..... Daysland
2-4 *Canadian Guidance and Counselling Association Conference* ..... Edmonton
2-5 *Grand Chapter of Alberta Order of the Eastern Star* ..... Calgary
2-6 *Alberta Women's Institute Conference* ..... Edmonton
2-13 *Dietary Service Vocational Short Course SAIT* ..... Calgary
3-5 *Annual Meeting Alberta Institute of Agrologists* ..... Vermilion
4-5 *Canadian Association of Purchasing Agents Convention* ..... Banff
4-7 *Municipal Refresher Course* ..... Banff
5-8 *Financial Executives Institute Convention* ..... Jasper
6-7 *Kinsmen's Clubs District 4 Convention* ..... Edmonton
6-7 *Jay Walkers' Jamboree* ..... Camrose
6-7 *Elks Lodge Convention* ..... Lethbridge
6-8 *Watchtower Bible and Tract Society Convention* ..... Hinton
6-9 *Canadian Postmasters' Association, Alberta Division Conference* ..... Edmonton
7 *Kinsmen Convention* ..... Edmonton
7 *4-H Show and Sale* ..... Nanton
8 *Annual Breakfast Fly-In* ..... Lacombe
8 *Trochu Golf Tournament* ..... Trochu
8 *Castor Golf Tournament* ..... Castor
8-11 *Alberta Pharmaceutical Association Convention* ..... Jasper
8-11 *Royal Canadian Legion Convention* ..... Calgary
9 *4-H Calf Show and Sale* ..... Sundre
9-13 *Short Course for Industrial Development Officers* ..... Edmonton
10-15 *American Association of Petroleum Landmen Convention* ..... Banff
10-13 *Biological Convention—Canadian Federation of Biological Societies U. of A.* ..... Edmonton
11 *Farmers' Union District 2 Convention* ..... Peace River
11-14 *Institute of Chartered Accountants of Alberta Convention* ..... Edmonton
12 *Farmers' Union District 1 Convention* ..... Grande Prairie
12-15 *Alberta Auto Dealers Association Convention* ..... Jasper
13 *Annual Sports Day* ..... Warner
13 *Kinsmen Rodeo* ..... Brooks
13 *Farmers' Day Picnic* ..... Mayerthorpe
13 *Silver Spur Saddle Club Picnic and Gymkhana* ..... Onoway
13 *Annual Farmers' Day Celebrations* ..... Thorhild
13 *Farmers' Day Rodeo and Gymkhana* ..... Bowden
13 *Agricultural 4-H Achievement Day* ..... Valleyview
13-14 *Lake McGregor Race Meet* ..... 2 miles west of Milo
13-14 *Hardisty Stampede* ..... Hardisty
13-14 *Olds Kiwanis Horse Show* ..... Olds
14 *Armed Forces Day* ..... CFB Edmonton, Calgary, Cold Lake and Penhold
14 *Strathmore and District 4-H Calf Sale* ..... Strathmore
14-17 *Alberta Provincial Firechiefs' Association Convention* Calgary
15 *Breakfast Fly-In and Official Opening of New Airport* ..... Stettler
15 *Annual Baseball Tournament* ..... Vilna
15 *Forestburg Men's Open Golf Tournament* ..... Forestburg
15 *Legion Amateur Rodeo* ..... Consort
15-17 *Canadian Conference of Motor Transport Authorties* ..... Edmonton
15-18 *Canadian Transit Association Convention* ..... Jasper
15-21 *Gyro International Convention* ..... Banff
16 *Farmers' Union District 6 Convention* ..... Vegreville
17 *Farmers' Union District 7 Convention* ..... Wainwright
17 *Farmers' Union District 12 Convention* ..... High River
17-21 *Public Utilities Commissioners Convention* ..... Banff
18 *Farmers' Union District 8 Convention* ..... Heisler
18 *Farmers' Union District 11 Convention* ..... Hanna
19 *Farmers' Union District 10 Convention* ..... Olds
19-21 *Canadian Federation of University Women's Convention* ..... Edmonton
20 *Farmers' Union District 3 Convention* ..... Athabasca
20-21 *Alberta Auctioneers Association Convention* ..... Lethbridge
20-21 *Canadian Cancer Society Convention* ..... Edmonton
20-21 *Alberta Council for Crippled Children and Adults Convention* ..... Edmonton
20-21 *Wainwright Frontier and Exhibition (Stampede)* ..... Wainwright
20-22 *Beta Sigma Phi-N.W. Area Convention* ..... Edmonton
20-22 *Kinsmen Rodeo* ..... St. Albert
20-22 *4-H Award Winners* ..... Banff
20-26 *Canadian Gas Association Convention* ..... Banff
21 *Bonanza Day* ..... Barrhead
21 *High River Race Meet* ..... High River
21 *Farmers' Union District 5 Convention* ..... Evansburg
21-22 *Morinville Frontier Daze* ..... Morinville
21-22 *Hootenany Weekend* ..... Spruce Grove
22 *Breakfast Fly-In* ..... Peace River
22 *Little Britches and Amateur Girls Rodeo* ..... Blackfalds
22-23 *Volume Independent Purchasers Convention* ..... Calgary
22-25 *American Water Resources Association* ..... Banff
22-28 *Pacific Coast Dental Conference* ..... Jasper
23-24 *Northwest Electric Light and Power Association Convention* ..... Edmonton
23-25 *Water Balance of North America Symposium* Banff
23-27 *Canadian Fire Marshals and Fire Commissioners Convention* ..... Banff
24 *Farmers' Union District 9 Convention* ..... Wetaskiwin
25 *Chamber of Commerce Steak Fry* ..... Thunder Lake
26-29 *Western Daily Newspapers Advertising Managers Convention* ..... Banff
27 *Lions Sports and Chairette Races* ..... Torrington
28 *Wandering Squares Caravan* ..... Barrhead
28 *Carstairs Rodeo* ..... Carstairs
28 *Second Annual Car Raffle and Steak Barbeque* ..... Fox Creek
28-29 *Highland Games* ..... Red Deer
28-29 *Raft Races and Summer Carnival* ..... Athabasca
28-29 *Lea Park Rodeo* ..... Lea Park

Bridges, Roads Support Access To New Town

A work train shuttles back to camp as the long shadows of a late winter's day stretch over the snowy landscape near the curve of the high bridge over the Smoky River. This is known as Smoky Hill to the rail crews.

ROAD ACCESS to the new town of Grande Cache, 80 miles north-west of Hinton, and to the nearby site of a huge coal mining development project is open to vehicular traffic and improvements are advancing.

Alberta Department of Highways road building and bridge construction crews have been active in the area for the past three years, spurred by the demands of exploration and development of the Smoky River coal deposits.

Work on all major bridges and structures on the route have been completed, and closing the final gap of new highway construction from Muskeg Corner to Mason Creek west is progressing rapidly.

Upgrading and re-alignment of the section of the Hinton to Muskeg Corner through Entrance Park is underway and work is expected to continue towards the Muskeg turn-off this season. Meanwhile, about 50 miles of the existing forestry trunk road will provide a gravelled facility north from Entrance Park to Muskeg.

A major portion of new construction lies between Muskeg, about 60 miles north of Hinton, to Grande Cache, extending 11 miles beyond the townsite of the coal mine. Construction on this portion of the highway is well advanced and all of the 14 structures required have been completed. These include bridges over the Muskeg and Smoky Rivers, a railroad overpass at Susa Creek and 11 steel culverts, some measuring up to 14 feet in diameter.

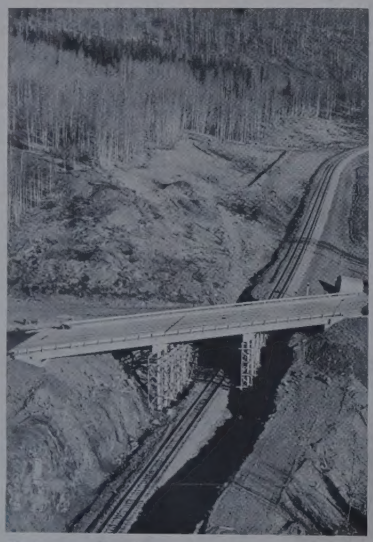
The heavy grading and Smoky River Bridge west of the Grande Cache townsite cleared the last major river barrier to the mine site and was completed in record time, opening for traffic in April, 1967, something less than three and one-half months from date of commencement. It replaces a temporary ferry crossing and cable foot bridge put in by exploration crews. Built to withstand heavy overloads, the new bridge consists of a 250 foot modern through-truss steel span with 55 foot pre-stressed concrete approaches at each end. This facility provides a clear roadway 25 feet in width and a vertical clearance in excess of 17½ feet.

The Muskeg River crossing and railroad overpass at Susa Creek, both of pre-stressed concrete deck design supported on concrete filled steel pilings, opened for traffic in October, 1968.

Upgrading of the Athabasca River bridge was completed in April of this year. Work involved widening of the roadway by replacing deck work on the main spans and the construction of new approaches. The pre-stressed concrete decking covering four spans plus the new approaches provides a 27 foot wide, two-lane roadway 700 feet long, supported on the existing concrete substructure. Work on this project was carried out with minor interruption to normal traffic. Up to this reconstruction, the old railway bridge and right-of-way acquired in 1963 had carried single lane traffic on a planked decking placed over the old railway tie bed. This narrow crossing, 51 feet above the rushing Athabasca River, now a modern highway facility, hurdles the last obstacle in the all-weather access into Grande Cache.

When completed, the overall project will see a primary class road between Hinton, Grande Cache and coal mine site.

No stretches of the Alberta Resources Railway are more attractive to the traveller than those flanking the turbulent waters of a mountain stream, promising the opening of extensive new recreational opportunities in the area.



Highway and railway meet and cross at several points along the route to Grande Cache. Here, at Susa Creek, the Alberta Department of Highways has constructed a bridge over the rail right-of-way.

Gas, Power Plants Rise With ARR

THE MAGNETIC qualities of a railway are being demonstrated early in the life of the Alberta Resources Railway.

Construction will commence this summer on a $7½ million natural gas processing plant for the Gold Creek field which straddles the rail line 25 miles south of Grande Prairie. A railway spur is already installed to take machinery and supplies into the site. Completion is scheduled for early 1970. The field was discovered in 196

Planned initial production is 40 million cubic feet of residue gas, 3,600 barrels of condensate and 105 long tons of sulphur daily. Solid and molten sulphur will be marketed via the new rail line.

A coal-fired electric-generating plant to be built at the Smoky River minesite is now in the final planning stage. It will have a nominal capacity of 150,000 kilowatts and is scheduled for completion by Canadian Utilities Ltd. in 1972. The new power will be fed into the provincial grid via Grande Prairie and Simonette